Group Art Unit: 2661



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

: Dan-Keun Sung et al.

Appln. No.

: 10/089,051

Filed

: March 25, 2002

For

: MULTI-DIMENSIONAL ORTHOGONAL RESOURCE HOPPING

MULTIPLEXING COMMUNICATIONS METHOD AND

**APPARATUS** 

RECEIVED

PRELIMINARY AMENDMENT

JUL 0 8 2002

Assistant Commissioner of Patents Washington, DC 20231

**Technology** Center 2600

Sir:

Prior to an examination of the above-captioned application, the Examiner is respectfully requested to amend the claims, as follows:

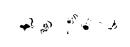
## IN THE CLAIMS

Please amend claims 1, 3 and 59 as follows (a marked-up copy of the claims is attached hereto):

1. (Clean Copy) A method for multi-dimensional orthogonal resource hopping multiplexing communication comprising a digital communication system that includes a primary communication station and secondary communication stations and a multi-dimensional orthogonal resource hopping multiplexing system allowing collision among multi-dimensional orthogonal resource hopping patterns within some data symbol durations for statistical multiplexing of the synchronous communication channels from said primary communication station to the secondary communication stations.



## GREENBLUM & BERNSTEIN, P.I **Intellectual Property Causes** 1941 Roland Clarke Place Reston, VA 20191 (703) 716-1191



Attorney Docket No. P22145

Dan-Keun SUNG et al. In re application of

Serial No. : 10/089,051 **Box Non-Fee** 

Group Art Unit: 2661

Filed

: March 25, 2002

Examiner

: Not Yet Known

For

: MULTI-DIMENSIONAL ORTHOGONAL RESOURCE HOPPING MULTIPLEXING

COMMUNICATIONS METHOD AND APPARATUS

THE COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

RECEIVED

JUL 0 8 2002

Sir:

**Technology Center 2600** 

Transmitted herewith is a Preliminary Amendment in the above-captioned application.

- X Small Entity Status of this application under 37 C.F.R. 1.9 and 1.27 has been established by a verified statement previously filed.
  - A verified statement to establish small entity status under 37 C.F.R. 1.9 and 1.27 is enclosed.
    - An Information Disclosure Statement, PTO Form 1449, and references cited.
- X No additional fee is required.

The fee has been calculated as shown below:

Claims After Amendment	No. Claims Previously Paid For	Present Extra	Small Entity		Other Than A Small Entity	
			Rate	Fee	Rate	Fee
Total Claims: 61	*61	0	x 9=	\$0.00	x 18=	\$
Indep. Claims: 4	**4	O O	x 42=	\$0.00	x 84=	\$
Multiple Dependent Claims Presented			+140=	\$0.00	+280=	\$
Extension Fees for Month				\$0.00		\$
			Total:	\$0.00	Total:	\$

<sup>\*</sup>If less than 20, write 20

Please charge my Deposit Account No. 19-0089 in the amount of \$

N/A A Check in the amount of \$\_\_\_\_\_ to cover the filing/extension fee is included.

X The Commissioner is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 19-0089.

X Any additional filing fees required under 37 C.F.R. 1.16.

X Any patent application processing fees under 37 C.F.R. 1.17, including any required extension of time fees in any concurrent or future reply requiring a petition for extension of time for its timely submission (37 CFR 1.136)(a)(3).

> Bruce H. Bernstein Reg. No. 29,027

<sup>\*\*</sup>If less than 3, write 3